

Multistimuli-responsive smart glass

● Contact

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Composite polymer-paraffin films that switch between light transparency and opacity upon application of a variety of stimuli: temperature, light and electric voltage.

● Team

The Group of Electrochemistry, Photochemistry and Organic Reactivity (GEFRO) of the UAB Department of Chemistry, led by Dr. Jordi Hernando, aims to study and develop new processes and materials through the use of photo and electrochemical technologies. Taking advantage of the multidisciplinary nature of the team, the types of processes and materials they investigate are diverse and range from the electrosynthesis of organic compounds and the electroactivation of CO₂, to the sustainable synthesis and processing of polymers, and to the preparation and characterization of smart molecules and (nano) materials.

● Description of the project

The Group of Electrochemistry, Photochemistry and Organic Reactivity (GEFRO) at the Department of Chemistry of the UAB, led by Dr. Jordi Hernando, has developed composite polymer-paraffin films that switch between light transparency and opacity upon application of a variety of stimuli: temperature, light and electric voltage. They could be applied as smart glasses with user's transparency control for privacy issues.

